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(54) **WIRELESS DEVICE DETECTION SYSTEM**

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CPC ..... **H04W 4/021** (2013.01); **H04W 64/00** (2013.01); **H04M 1/72519** (2013.01)

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See application file for complete search history.

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(57) **ABSTRACT**

A device for detecting wireless signals and locating the place of origin in a building is provided that includes a transmitter system using a cellular protocol; a plurality of antennae that receive wireless Radio Frequency (RF) signals, each antenna having a port; a receiving system connected to the antennae ports with a plurality of cables, converting the RF signal to voltage waveform; a processing system in communication with the receiving system, detecting the strength of the received signals and Time Difference of Arrival of the RF signals with respect to antennae and determining the location where the wireless signals are being emitted by using classification algorithms; and a human machine interface.

**15 Claims, 3 Drawing Sheets**

